Chapter 8: Ionic Compounds

1. Be able to define and answer questions about the importance and properties of the following terms:
   1. Chemical bond
   2. Ionic bond
   3. Octet Rule
   4. Electrolyte
   5. Lattice energy
   6. Formula unit
   7. Oxidation number
   8. Oxyanion
   9. Alloy
   10. Metallic bond
2. Compare and contrast the following sets of terms:
   1. Anion and cation
   2. Monatomic and polyatomic ions
3. Discuss the physical properties of ionic compounds.
4. Write formulas for ionic compounds and oxyanions.
5. Name ionic compounds and oxyanions.
6. Discuss the physical properties of metals in terms of metallic bonds.

Chapter Review Assignment:

p. 236: #49, 53, 58, 60, 65, 67, 68, 72, 73

p. 237: #74a,c,e 75a,c,e, 77a, 78, 80, 81, 86, 88a,c,e, 92

p. 238: #96

p. 239: #1, 3, 4, 7-10 odd

Chapter 8 & 9 Homework

The following assignments will be assessed with announced homework assessments. While the homework will not be scored for a grade, the questions on the homework assessments will be related to those in the book problems

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| --- | --- | --- | --- |
| *Chapter.Section* | *Page(s)* | *Problems* | *Topic* |
| 8.1 | 214 | 1-6 | Formation of Ions |
| 8.2 | 217 | 7-11 | Forming Ionic Bonds |
| 8.3 | 224, 225, 227 | 19-28, 38, 39 | Ionic Formulas |
| 8.4 | 231 | 40-42, 44 | Metallic Bonding |